

**USER Manual**

 **Bluetooth**



***Bluetooth Slipper™  
for GPS Receiver  
HI-401BT***



## **Bluetooth Slipper™ for GPS Receiver**

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# 1. Getting Started

## 1.1 Introductions

The Bluetooth Slipper™ for GPS receiver is a Bluetooth cradle or docking station of the GPS receiver to transfer the GPS data wirelessly to the host devices, like, notebookPC, PocketPC, Smart Phone, TabletPC, etc. Simply insert the CompactFlash™ interface of the multi-mode foldable GPS receiver into the Bluetooth Slipper™, the two units become a Bluetooth GPS receiver while the GPS receiver receiving the satellites signal and the Bluetooth transmit the GPS data to the mobile device. It'll be a perfect tool for all kinds of global positioning applications, such as, in car, marine, aviation navigation, outdoor activities, places finding, etc. without the wire alllover.

## 1.2 Bluetooth Slipper™ Advantages:

- 1. Modulize concept:** The multi-mode foldable GPS receiver can be used independently. (please see user manual for the multi-mode foldable GPS receiver)
- 2. Place on right place:** The metal plate on the bottom of the Bluetooth Slipper™ can be attached to the car holder with magnetic. The Bluetooth GPS receiver can be either placed on the back window of the car or on the front windshield Or, with belt clipper, user can clip the BTSlipper on the belt and get the best satellite reception in best angel.
- 3. Switchless design:** To turn on the Bluetooth Slipper™, simply insert and connect the CompactFlash™ part into the CF™ slot and turn off by disconnect the CF™ interface from the CF slot.
- 4. Changeable battery:** User can change the spare battery like mobile phone without interruptting the GPS positioning.
- 5. Multi-function Connector:** The function of the mini-1394 connector on the side are: a) Charging the battery in the Bluetooth Slipper™, b) Solar panel power add, c) Data Logger module.
- 6. Adjustable GPS antenna:** The multi-mode foldable GPS receiver on the Bluetooth Slipper™ can be adjusted in different angle to get the best satellite receptions.
- 7. Long Lasting Battery:** It lasts more than 8 hours for the standard battery. With the solar panel add, the battery can stay active for more than 12 hours depend on the sunlight.



GPS Receiver

Bluetooth Slipper™

**Modulize Concept**

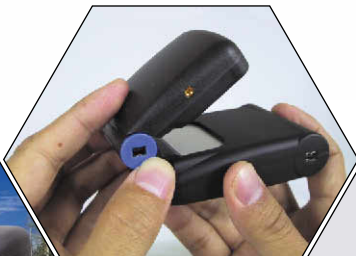


Best Reception Angle

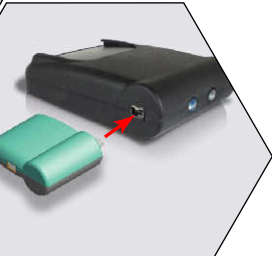
**Place on Right Place:  
on the back of car**



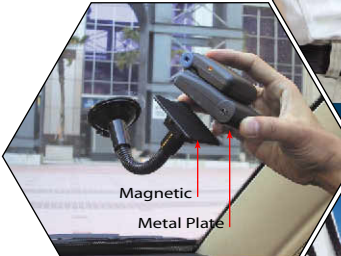
**Place on Right Place:  
Clip on back**



**Switchless Design:  
Connect to Power on**



**BT Slipper with  
Data Logger Dongle**



Magnetic Metal Plate

**Place on Right Place:  
on front of car**



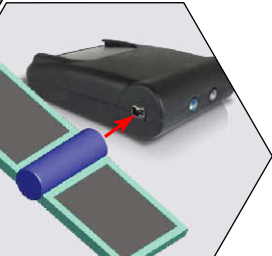
**Place on Right Place:  
Clip on belt**



**(Place on Right Place:  
Hang on neck**



**Changeable Battery**



**BT Slipper with  
Solar Panel**



Mini-1394 Female Connector

**Multi-function  
Connector**



Unit: mm

## 2. Dimensions

**Top View**



Unit: mm

**Bottom View**



**Top View**

Build-in patch antenna



**Bottom View**

Battery Cap



**Front View**



**Back View**



**Front View**

Bluetooth indicator

Power charging indicator



**Back View**



**Side View**



Mini-1394 Female Connector

Mini-1394 Connector

MMCX ext. antenna plug



LED indicator

**Side View**



**Fully Extended View**



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## 3. Bluetooth Slipper™ with Multi-Mode Foldable GPS receiver:

### 3.1 PACKAGING:

The standard package of the Bluetooth Slipper™ with Multi-Mode Foldable GPS receiver including:

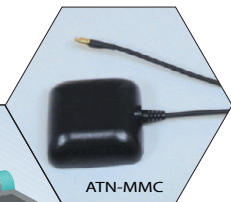
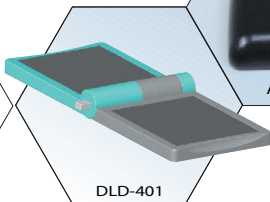
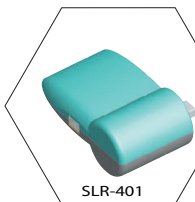
Model Name	Model #
1. Bluetooth Slipper™	HI-401BT
2. Rechargeable Li-Polymer Better 3.7V 1500mAh	401-BTT
3. Mini-1394 to Cigarette car charger	401-DCC
4. Mini-1394 to AC power adapter	401-ACC
5. Magnetic Car Holder	HOD-001
6. BTslipper pouch with clipper	LCS-401
7. BT Slipper User Manual	MAU-401
8. Mini CDs	CDR-01
9. Multi-Mode Foldable GPS receiver	HI-303E
10. Mini-1394 to PS/II Connecting cable	CAB-303E
11. Multi-Mode Foldable GPS receiver Pouch	LCS-303
12. Multi-Mode Foldable GPS receiver User Manual	MAU-303E





### Optional Accessories:

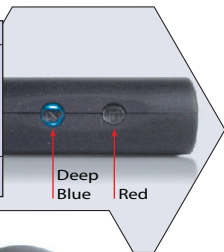
1. Swivel mini-1394 Solar Panel SLR-401
2. Mini-1394 Data Logger Dongle DLD-401
3. MMCX External Antenna (for the Multi-Mode Foldable GPS receiver) ATN-MMC



### 3.2 LED indicators:

#### On Bluetooth Slipper:

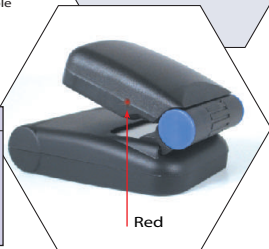
Symble	LED Color	Light Indication
Bluetooth connection Status	Deep Blue	<b>Blinking:</b> The Bluetooth is searching the host device or not connected* <b>Stay On:</b> The Bluetooth have found and connected with the host device
Battery	Red	<b>Stay On:</b> The battery charging



\* As soon as the CF interface of multi-mode foldable GPS Connect to the CF slot inside the BT Slipper, the deep blue LED will start blinking

#### On Multi-Mode Foldable GPS Receiver:

LED Color	Light Indication
<b>Blinking:</b>	The GPS receiver is searching the satellite signals.
<b>Stay On:</b>	The GPS Receiver have fixed more than 4 satellites and in 3D positioning fix.





## 4. System Specifications:

### 4.1 Bluetooth Slipper Specifications:

Bluetooth V1.1 Compliances

Frequency Range:	2.4 ~ 2.4835 GHz unlicensed ISM band
Interface:	USB/UART/SPI
Receiver Sensitivity:	-80 dBm @ 0.1% BER
Transmitting Power:	Class 2 -6 dBm ~ +4 dBm
RF Input Impedance:	50 ohms
Frequency hopping:	1600hops/sec.
Baseband Crystal OSC:	16MHz
Data Rate:	Up to 723Kb/s
Operating Temperature:	-20°C ~ +80°C
Storage Temperature:	-30°C ~ +90°C
Supply Voltage:	Build-in Rechargeable Battery (3.7V 1500mAh)
Operation Time:	8 hrs after fully charged in continue mode
Transmitting Range:	10 meters (Typical)
Power Consumption:	45 mA (Typical)





## 4.2 Multi-mode Foldable GPS receiver Specifications:

Interfaces:	Compact Flash type 1 & Mini-1394
Protocol:	NMEA0183 GGA, GSA, GSV, RMC, VTG, GLL
Baud Rate:	1 Hz
Datum:	WGS84
Channel:	12 channel all-in-view tracking
Frequency:	L1, 1575.42MHz
Hot Start:	8 sec. Average
Warm Start:	38 sec. Average
Cold Start:	48 sec. Average
Reacquisition Time:	100 ms
Position Accuracy:	15m 2D RMS, SA off
Maximum Altitude:	18,000m
Maximum Velocity:	515m/s
Voltage:	DC 3.3V+-10%
Power consumption:	120mA continuous mode
Antenna Type:	Built-in active antenna
External Antenna	MMCX (Optional)
Connector:	
Dimension:	Fold 68 (L) x 48 (W) x 24 (H)mm
	Unfold 120 (L) x 48 (W) x 21 (H)mm
LED Indicator:	3D Positioning (on) or Searching GPS (blinking)
Operating Temperature:	-10• to +70•
Storage Temperature:	-40• to +85•
Operation Humidity:	95%, Non-Condensing



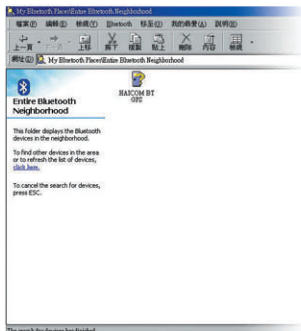
## 5. Get Connected; Installation Guide

### 5.1 Notebook Installations

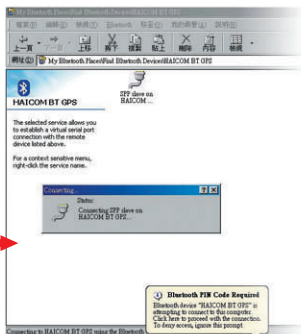
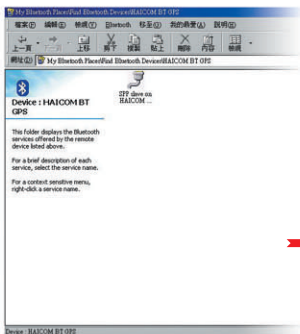
Run "My Bluetooth Places" and Double Click the "Find Bluetooth Devices" icon



Double Click "HAICOM BT GPS"

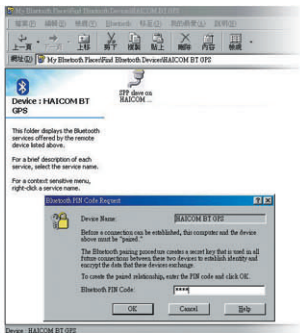


Double Click "SPP on HAICOM BT GPS"

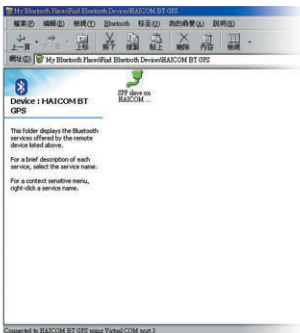




## Key in pin code:0000

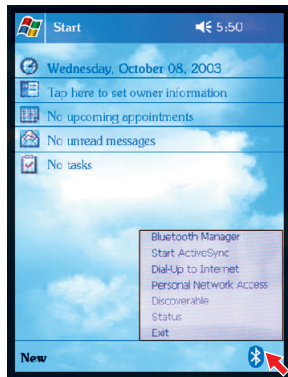
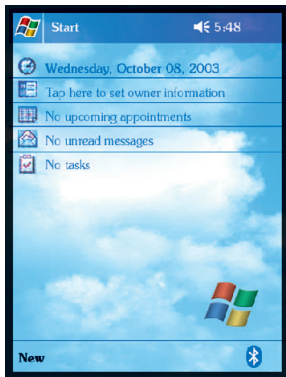


## Connected



## 5.2 PDA Installations

Double Click the Bluetooth icon 





Double click "HAICOM BT GPS"

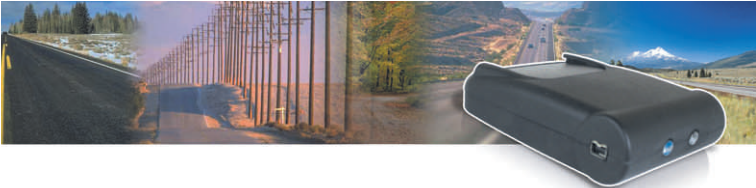


Key in pin code



Found the host device

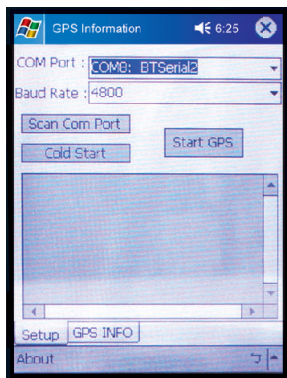




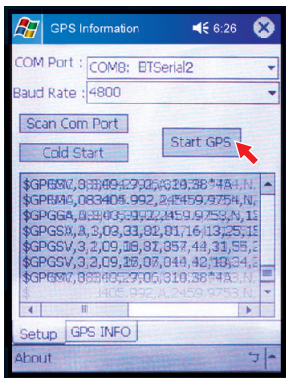
For Connected with device



Select the correct com port



Start GPS, NMEA message inflow



More satellites info





***Bluetooth Slipper™  
for GPS Receiver***



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